

ABSTRACT:Signal Processing Apparatus and Methods

This invention is generally concerned with apparatus and methods for signal processing, and more particularly with improved techniques for diversity reception in communication systems.

An antenna branch selector (800) for selecting for processing at least one of a plurality of antenna branches (802) each coupled to a respective receive antenna and carrying a received signal, said antenna branch selector comprising a signal selector (804) having a plurality of inputs to receive signals from said plurality of antenna branches and having an output to output a selected signal for processing a time-to-frequency domain converter (810) configured to receive a time domain signal from each of said antenna branches and to provide a corresponding frequency domain output signal; and a controller (820) coupled to said time-to-frequency domain converter and to said signal selector to control said signal selector to select a said antenna branch responsive to said frequency domain output signal.

Figure 8a.